

| | Application No. | Applicant(s) |
|--|---|------------------------------|
| Notice of Allowability | 10/630,053 | LAKE, ANDREW W. |
| | Examiner | Art Unit |
| | Vikansha S. Dwivedi | 3746 |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. | | |
| 1. This communication is responsive to 12/02/2004. | | |
| 2. The allowed claim(s) is/are <u>1-20</u> . | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No | | |
| 3. Copies of the certified copies of the priority documents have been received in this national stage application from the | | |
| International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | |
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| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5 Notice of Informal P | atent Application (PTO-152) |
| Notice of References Cited (P 10-032) Dotice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview Summary | (PTO-413), |
| 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 | Paper No./Mail Dai 08), 7. 🔯 Examiner's Amendr | te ment/Comment |
| Paper No./Mail Date 11/13/2003 4. Examiner's Comment Regarding Requirement for Deposit | • | ent of Reasons for Allowance |
| of Biological Material | 9. Other | |
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Information Disclosure Statement

The information disclosure statement (IDS) filed on 11/13/2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

EXAMINER'S AMENDMENT

The application has been amended as follows:

Specification – Page 2, line 30, the last two words "hypercompressor, a in" have been changed as - -hypercompressor, in a- -

It appeared to be a typing error in the text and hence has been corrected.

NOTE – The term "pressure-wrapped cylinder" is being interpreted as cylinder for examination purposes as the applicant has not indicated any other meaning for the term.

Allowable Subject Matter

Claims 1 – 20 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art neither discloses nor makes obvious the combination set forth in the claims by not disclosing a pressure sensor that is designed to correlate the strain inside the reciprocating compressor to the plunger position and thereby generating a pressure profile based on the measured strain. The plunger is designed to compress the working fluid and thereby

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increase the fluid pressure. McManus et al discloses a pressure monitoring assembly but the strain responsive sensor in disposed outside the exterior wall surface of the vessel. There are also teachings in other prior art of torque and position transducers as Robert (US Patent number 5,931,044), that teaches mountable strain gauge.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art did not make the combination set forth in the present invention obvious and is therefore considered a novel invention. The following references are cited to further show the state of the art with respect to sensing devices.

U.S. Pat. 5,882,384

U.S. Pat. 6,292,757

U.S. Pat. 6,216,300

U.S. Pat. 4,669,960

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikansha S. Dwivedi whose telephone number is 571-272-7834. The examiner can normally be reached on M-F, 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).